



Attorney's Docket No.: 12557-016001

IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Michelle L. Verbsky et al. Art Unit : 1638
Serial No. : 10/772,227 Examiner : Unknown
Filed : February 4, 2004
Title : NUCLEIC ACIDS ENCODING ANTHELMINTIC AGENTS AND PLANTS
MADE THEREFROM

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (5 pages);
3. Copies of Cited References (60 references); and
4. A Return Postcard.

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Respectfully submitted,

Date: June 2, 2005

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INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

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PATENT AND TRADEMARK OFFICE
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(37 CFR §1.98(b))

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,761,373	08/02/88	Anderson et al.			
	AB	4,769,061	09/06/88	Comai			
	AC	4,771,571	09/20/88	Obrero et al.			
	AD	4,810,648	03/07/89	Stalker			
	AE	4,851,341	07/25/89	Hopp et al.			
	AF	4,940,835	07/10/90	Shah et al.			
	AG	4,975,374	12/04/90	Goodman et al.			
	AH	5,001,912	03/26/91	DeWalch			
	AI	5,013,659	05/07/91	Bedbrook et al.			
	AJ	5,093,124	03/03/92	Kulenkampff			
	AK	5,162,602	11/10/92	Somers et al.			
	AL	5,192,546	03/09/93	Abercrombie			
	AM	5,204,253	04/20/93	Sanford et al.			
	AN	5,246,716	09/21/93	Sedun et al.			
	AO	5,346,698	09/13/94	Abercrombie			
	AP	5,491,084	02/13/96	Chalfie et al.			
	AQ	5,554,798	09/10/96	Lundquist et al.			
	AR	5,668,292	09/16/97	Somerville et al.			
	AS	5,674,897	10/07/97	Kim et al.			
	AT	5,698,592	12/16/97	Kim et al.			
	AU	5,750,386	05/12/98	Conkling et al.			
	AV	5,767,366	06/16/98	Sathasivan et al.			
	AW	5,801,026	09/01/98	Somerville et al.			
	AX	5,846,784	12/08/98	Hitz			
	AY	5,928,937	07/27/99	Kakefuda et al.			
	AZ	6,013,863	01/11/00	Lundquist et al.			
	AAA	6,028,248	02/22/00	Somerville et al.			

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U.S. Patent Documents							
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	ABB	6,048,714	04/11/00	Hiromoto			
	ACC	6,084,155	07/04/00	Volrath et al.			
	ADD	6,124,359	09/26/00	Feitelson et al.			
	AEE	6,194,167	02/27/01	Browse et al.			
	AFF	6,225,528	05/01/01	Chin et al.			
	AGG	6,291,742	09/18/01	Somerville et al.			
	AHH	6,310,194	10/30/01	Somerville et al.			
	AII	6,329,518	12/11/01	Green et al.			
	AJJ	6,333,448	12/25/01	Bafor et al.			
	AKK	20010016956	08/23/01	Ward et al.			

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							Yes No
	ALL	0 242 246	10/21/87	EPO			
	AMM	WO 98/46762	10/22/98	PCT			

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ANN	Altschul et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <i>Nucl. Acids Res.</i> , 1997, 25(17):3389-3402
	AOO	Atkinson et al., "Image Analysis of the Growth of <i>Globodera pallida</i> and <i>Meloidogyne incognita</i> on Transgenic Tomato Roots Expressing Cystatins," <i>J. Nematol.</i> , 1996, 28(2):209-215
	APP	Banaá et al., "The involvement of phospholipids: diacylglycerol acyltransferases in triacylglycerol production," <i>Biochem. Soc. Trans.</i> , 2000, 28(6):703-705
	AQQ	Barker et al., "Plant and Soil Nematodes: Societal Impact and Focus for the Future," <i>J. Nematol.</i> , 1994, 26(2):127-137
	ARR	Bateman et al., "Pfam 3.1: 1313 multiple alignments and profile HMMs match the majority of proteins," <i>Nucl. Acids Res.</i> , 1999, 27:260-262
	ASS	Bouvier-Navé et al., "Expression in yeast of an acyl-CoA:diacylglycerol acyltransferase cDNA from <i>Caenorhabditis elegans</i> ," <i>Biochem. Soc. Trans.</i> , 2000, 28(6):692-695
	ATT	Bouvier-Navé et al., "Expression in yeast and tobacco of plant cDNAs encoding acyl CoA:diacylglycerol acyltransferase," <i>Eur. J. Biochem.</i> , 2000, 267(1):85-96

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	AUU	Broadwater et al., "Desaturation and Hydroxylation. Residues 148 and 324 of <i>Arabidopsis</i> FAD2, in Addition to Substrate Chain Length, Exert A Major Influence in Partitioning of Catalytic Specificity," <i>J. Biol. Chem.</i> , 2002, 277(18):15613-15620	
	AVV	Broun & Sommerville, "Accumulation of Ricinoleic, Lesquerolic, and Densipolic Acids in Seeds of Transgenic <i>Arabidopsis</i> Plants That Express a Fatty Acyl Hydroxylase cDNA from Castor Bean," <i>Plant Physiol.</i> , 1997, 113(3):933-942	
	AWW	Broun et al., "A bifunctional oleate 12-hydroxylase: desaturase from <i>Lesquerella fendleri</i> ," <i>Plant J.</i> , 1998, 13(2):201-210	
	AXX	Broun et al., "Catalytic Plasticity of Fatty Acid Modification Enzymes Underlying Chemical Diversity of Plant Lipids," <i>Science</i> , 1998, 282(5392):1315-1317	
	AYY	Bustos et al., "Regulation of β -Glucuronidase Expression in Transgenic Tobacco Plants by an A/T-Rich, <i>cis</i> -Acting Sequence Found Upstream of a French Bean β -Phaseolin Gene," <i>Plant Cell</i> , 1989, 1:839-853	
	AZZ	Carpenter, et al., "Township limits on 1,3-D will impact adjustment to methyl bromide phase-out," <i>California Agriculture</i> , 2001, 55(3):12-18	
	AAAA	Carter, "Costs uncertain: Methyl bromide phase-out becomes reality," <i>California Agriculture</i> , 2001, 55(3):2	
	ABBB	Clough & Bent, "Floral dip: a simplified method for <i>Agrobacterium</i> -mediated transformation of <i>Arabidopsis thaliana</i> ," <i>Plant J.</i> , 1998, 16(6):735-743	
	ACCC	Dahlqvist et al., "Phospholipid:diacylglycerol acyltransferase: An enzyme that catalyzes the acyl-CoA-independent formation of triacylglycerol in yeast and plants," <i>Proc. Natl. Acad. Sci USA</i> , 2000, 97(12):6487-6492	
	ADDD	Davis et al., "Nematicidal Activity of Fatty Acid Esters on Soybean Cyst and Root-knot Nematodes," <i>J. Nematol.</i> , 1997, 29(4S):677-684	
	AEEE	Djian et al., "Nematicidal Properties of Carboxylic Acids and Derivatives," <i>Pestic. Biochem. Physiol.</i> , 1994, 50(3):229-239	
	AFFF	Eisenback, "Techniques for Measuring Nematode Development and Egg Production," <i>Laboratory Techniques in Nematode Ecology</i> , Wheeler et al. (eds.), Society of Nematologists, Hyattsville, MD, pp. 1-4	
	AGGG	van Engelen et al., "pBINPLUS: an improved plant transformation vector based on bPIN19," <i>Transgenic Res.</i> , 1995, 4:288-290	
	AHHH	Gaginella et al., "Actions on Ricinoleic Acid and Structurally Related Fatty Acids on the Gastrointestinal Tract. II. Effects on Water and Electrolyte Absorption <i>In Vitro</i> ," <i>J. Pharmacol. Exp. Ther.</i> , 1975, 195(2):355-361	
	AIII	Gaginella et al., "Cytotoxicity of Ricinoleic Acid (Castor Oil) And Other Intestinal Secretagogues on Isolated Intestinal Epithelial Cells," <i>J. Pharmacol. Exp. Ther.</i> , 1977, 201(1):259-266	
	AJJJ	Gamborg et al., "Nutrient Requirements of Suspension Cultures of Soybean Root Cells," <i>Exp. Cell Res.</i> , 1968, 50:151-158	
	AKKK	Green et al., "Binding site requirements for pea nuclear protein factor GT-1 correlate with sequences required for light-dependent transcriptional activation of the <i>rbcS-3A</i> gene," <i>EMBO J.</i> , 1988, 7(13):4035-4044	
	ALLL	Hackney & Dickerson, "Marigold, Castor Bean, and Chrysanthemum as Controls of Meloidogyne incognita and <i>Pratylenchus allenii</i> ," <i>J. Nematol.</i> , 1975, 7(1):84-90	

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Other Documents (include Author, Title, Date, and Place of Publication)

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	AMMM	Heinrich et al., "PotRb7 – A Gene Equivalent to tobRB7 from Potato (Accession No. U65700)," <u>Plant Physiol.</u> , 1996, 112(2):862
	ANNN	Atkinson et al., "Engineering Resistance to Plant-parasitic Nematodes," <u>The Physiology and Biochemistry of Free-Living and Plant-Parasitic Nematodes</u> , 1998, Perry & Wright (eds.), CAB International, Chapter 15, pp. 381-413
	AOOO	Hussey & Barker, "A Comparison of Methods of Collecting Inocula of Meloidogyne Spp., Including a New Technique," <u>Plant Disease Reporter</u> , 1973, 57(12):1025-1028
	APPP	Jako et al., "Seed-Specific Over-Expression of an Arabidopsis cDNA Encoding a Diacylglycerol Acyltransferase Enhances Seed Oil Content and Seed Weight," <u>Plant Physiol.</u> , 2001, 126(2):861-874
	AQQQ	Jordano et al., "A Sunflower Helianthinin Gene Upstream Sequence Ensemble Contains an Enhancer and Sites of Nuclear Protein Interaction," <u>Plant Cell</u> , 1989, 1:855-866
	ARRR	Karlin and Altschul, "Methods for assessing the statistical significance of molecular sequence features by using general scoring schemes," <u>Proc. Natl. Acad. Sci. USA</u> , 1990, 87:2264-2268
	ASSS	Karlin and Altschul, "Applications and statistics for multiple high-scoring segments in molecular sequences," <u>Proc. Natl. Acad. Sci. USA</u> , 1993, 90:5873-5877
	ATTT	Lasota & Dybas, "Abamectin As A Pesticide for Agricultural Use," <u>Acta Leidensia</u> , 1990, 59(1-2):217-225
	AUUU	Lee et al., "Identification of Non-Heme Diiron Proteins That Catalyze Triple Bond and Epoxy Group Formation," <u>Science</u> , 1998, 280:915-918
	AVVV	Marroquin et al., "Bacillus thuringiensis (Bt) Toxin Susceptibility and Isolation of Resistance Mutants in the Nematode <i>Caenorhabditis elegans</i> ," <u>Genetics</u> , 2000, 155(4):1693-1699
	AWWW	McCormick, "Transformation of tomato with <i>Agrobacterium tumefaciens</i> ," <u>Plant Tissue Culture Manual</u> , 1991, B6:1-9
	AXXX	McElroy et al., "Development of gusA reporter gene constructs for cereal transformation: Availability of plant transformation vectors from the CAMBIA Molecular Genetic Resource Service," <u>Mol. Breed.</u> , 1995, 1:27-37
	AYYY	Meier et al., "Elicitor-Inducible and Constitutive in Vivo DNA Footprints Indicate Novel cis-Acting Elements in the Promoter of a Parsley Gene Encoding Pathogenesis-Related Protein 1," <u>Plant Cell</u> , 1991, 3:309-315
	AZZZ	Mello et al., "Efficient gene transfer in <i>C.elegans</i> : extrachromosomal maintenance and integration of transforming sequences," <u>EMBO J.</u> , 1991, 10(12):3959-3970
	AAAAA	Millar et al., "All fatty acids are not equal: discrimination in plant membrane lipids," <u>Trends Plant Sci.</u> , 2000, 5(3):95-101
	BBBBB	Miquel & Browse, "Arabidopsis Mutants Deficient in Polyunsaturated Fatty Acid Synthesis. Biochemical and Genetic Characterization of a Plant Oleoyl-Phosphatidylcholine Desaturase," <u>J. Biol. Chem.</u> , 1992, 267(3):1502-1509
	ACCCC	Momin & Nair, "Pest-Managing Efficacy of trans-Asarone Isolated from <i>Daucus carota</i> L. Seeds," <u>J. Agric. Food Chem.</u> , 2002, 50(16):4475-4478
	ADDDD	Moon et al., "A Condensing Enzyme from the Seeds of <i>Lesquerella fendleri</i> That Specifically Elongates Hydroxy Fatty Acids," <u>Plant Physiol.</u> , 2001, 127(4):1635-1643
	AEEEE	Peyou-Ndi et al., "Identification and Characterization of an Animal Δ ¹² Fatty Acid Desaturase Gene by Heterologous Expression in <i>Saccharomyces cerevisiae</i> ," <u>Arch. Biochem. Biophys.</u> , 2000, 376(2):399-408

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	AFFFF	Sarda et al., "Characterization of closely related δ -TIP genes encoding aquaporins which are differentially expressed in sunflower roots upon water deprivation through exposure to air," <u>Plant Mol. Biol.</u> , 1999, 40(1):179-191	
	AGGGG	Singh et al., "Inhibition of polyunsaturated fatty acid accumulation in plants expressing a fatty acid epoxidase," <u>Biochem. Society Trans.</u> , 2000, 28(6):940-942	
	AHHHH	Singh et al., "Transgenic expression of a Δ 12-epoxygenase gene in <i>Arabidopsis</i> seeds inhibits accumulation of linoleic acid," <u>Planta</u> , 2001, 212:872-879	
	AIIII	Sonhammer et al., "Pfam: A Comprehensive Database of Protein Domain Families Based on Seed Alignments," <u>Proteins: Structure, Function, and Genetics</u> , 1997, 28:405-420	
	AJJJJ	Sonhammer et al., "Pfam: multiple sequence alignments and HMM-profiles of protein domains," <u>Nucl. Acids Res.</u> , 1998, 26(1):320-322	
	AKKKK	Spychala et al., "Identification of an animal ω -3 fatty acid desaturase by heterologous expression in <i>Arabidopsis</i> ," <u>Proc. Natl. Acad. Sci. USA</u> , 1997, 94(4):1142-1147	
	ALLLL	Stadler et al., "Fatty Acids and Other Compounds with Nematicidal Activity from Cultures of Basidiomycetes," <u>Planta Medica</u> , 1994, 60(2):128-132	
	AMMMM	van de Loo et al., "Unusual Fatty Acids," <u>Lipid Metabolism in Plants</u> , 1993, CRC Press, Boca Raton, Chapter 3, pp. 91-126	
	ANNNN	van de Loo et al., "An oleate 12-hydroxylase from <i>Ricinus communis</i> L. is a fatty acyl desaturase homolog," <u>Proc. Natl. Acad. Sci. USA</u> , 1995, 92(15):6743-6747	
	AOOOO	Vos et al., "The tomato <i>Mi-1</i> gene confers resistance to both root-knot nematodes and potato aphids," <u>Nat. Biotechnol.</u> , 1998, 16:1365-1369	
	APPPP	Wright & Perry, "Musculature and Neurobiology," <u>The Physiology and Biochemistry of Free-Living and Plant-parasitic Nematodes</u> , 1998, CAB International, Chapter 3, pp. 49-73	
	AQQQQ	Yamamoto et al., "Characterization of <i>cis</i> -Acting Sequences Regulating Root-Specific Gene Expression in Tobacco," <u>Plant Cell</u> , 1991, 3:371-382	
	ARRRR	Ye et al., " <i>Arabidopsis</i> ovule is the target for <i>Agrobacterium</i> in <i> planta</i> vacuum infiltration transformation,"	
	ASSSS	Zhang et al., "DNA Sequences That Activate Isocitrate Lyase Gene Expression during Late Embryogenesis and during Postgerminative Growth," <u>Plant Physiol.</u> , 1996, 110:1069-1079	

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